

09872705

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 15:17:40 ON 08 FEB 2003)

FILE 'REGISTRY' ENTERED AT 15:17:50 ON 08 FEB 2003

L1 1208 S TESTOSTERONE  
L2 81 S DIHYDROTESTOSTERONE  
L3 0 S 17-METHOXYMETHYLESTR-4-ENE-3-ONE

FILE 'CAPLUS' ENTERED AT 15:20:56 ON 08 FEB 2003

L4 0 S 17-METHOXYMETHYLESTR-4-ENE-3-ONE  
L5 0 S 17-METHOXYMETHYLESTR  
L6 1 S METHOXYMETHYLESTR

FILE 'REGISTRY' ENTERED AT 15:22:48 ON 08 FEB 2003

L7 0 S METHOXYMETHYLESTR/RN  
L8 6 S METHOXYMETHYLESTR

FILE 'CAPLUS' ENTERED AT 15:24:20 ON 08 FEB 2003

L9 7 S L8  
L10 0 S METHOXYMETHYLOXYANDROST  
L11 0 S METHOXYMETHYLOXYANDROST  
L12 0 S METHOXYMETHYLOXYANDROST-1,4-DIENE  
L13 0 S METHOXYMETHYLOXYANDROST-1

FILE 'REGISTRY' ENTERED AT 15:29:05 ON 08 FEB 2003

L14 0 S METHOXYMETHYLOXYANDROST  
L15 241 S 17-HYDROXYANDROST  
L16 1 S 17-DIOL, ANDROST

FILE 'CAPLUS' ENTERED AT 15:32:58 ON 08 FEB 2003

=> s l16

L17 1 L16

=> d l17 ibib hitstr abs

L17 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:850953 CAPLUS

DOCUMENT NUMBER: 136:11113

TITLE: Composition containing deer antler, nor-testosterone and testosterone precursors and aromatase and 5.alpha.-reductase inhibitors to increase testosterone levels

INVENTOR(S): Yegorova, Inna

PATENT ASSIGNEE(S): Braswell, Glenn A., USA

SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----

2/8/2003

09872705

WO 2001087316 A2 20011122 WO 2001-US15404 20010512  
WO 2001087316 A3 20020502

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,  
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,  
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,  
ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2000-570908 A 20000515

IT 376387-73-4

RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(compn. contg. deer antler, nortestosterone and testosterone precursors  
and aromatase and 5.alpha.-reductase inhibitors to increase  
testosterone levels)

RN 376387-73-4 CAPLUS

CN Androst-4-ene-3,17-dione, mixt. with (3.beta.,17.beta.)-androst-5-ene-3,17-  
diol, androst-5-ene-3,17-dione, antler, 5,7-dihydroxy-2-phenyl-4H-1-  
benzopyran-4-one, (3.beta.,17.beta.)-estr-5-ene-3,17-diol,  
estr-4-ene-3,17-dione, and estr-5-ene-3,17-dione (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

AB This invention provides compns. and methods related to the administration  
of deer antler, one or more nor-testosterone precursors, and one or more  
testosterone precursors, to increase testosterone levels, treat sexual  
dysfunction, improve sexual function, improve energy, enhance feelings of  
well-being and increase muscle mass in males. This invention also  
provides for inhibitors of the enzymes aromatase and/or 5-alpha reductase,  
to support testosterone levels and avoid undesirable metabolites.

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
3.55	152.44

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.65	-5.86

CA SUBSCRIBER PRICE

FILE 'REGISTRY' ENTERED AT 15:34:07 ON 08 FEB 2003

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STRUCTURE FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6

DICTIONARY FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

2/8/2003

09872705

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STN Note 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s 376387-73-4/rn

L18 1 376387-73-4/RN

=> d l18

L18 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 376387-73-4 REGISTRY

CN Androst-4-ene-3,17-dione, mixt. with (3.beta.,17.beta.)-androst-5-ene-3,17-diol, androst-5-ene-3,17-dione, antler, 5,7-dihydroxy-2-phenyl-4H-1-benzopyran-4-one, (3.beta.,17.beta.)-estr-5-ene-3,17-diol, estr-4-ene-3,17-dione, and estr-5-ene-3,17-dione (9CI) (CA INDEX NAME)

MF C19 H30 O2 . C19 H26 O2 . C19 H26 O2 . C18 H28 O2 . C18 H24 O2 . C18 H24 O2 . C15 H10 O4 . Unspecified

CI MXS, MAN

SR CA

LC STN Files: CA, CAPLUS

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=>

2/8/2003

09872705

=>

=> s methoxymethyloxyandrost

L10 0 METHOXYMETHYLOXYANDROST

=> s methoxymethyloxyandrost

L11 0 METHOXYMETHYLOXYANDROST

=> s methoxymethyloxyandrost-1,4-diene

0 METHOXYMETHYLOXYANDROST

7426203 1

4612880 4

57582 DIENE

L12 0 METHOXYMETHYLOXYANDROST-1,4-DIENE

(METHOXYMETHYLOXYANDROST (W) 1 (W) 4 (W) DIENE)

=> s methoxymethyloxyandrost-1

0 METHOXYMETHYLOXYANDROST

7426203 1

L13 0 METHOXYMETHYLOXYANDROST-1

(METHOXYMETHYLOXYANDROST (W) 1)

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

48.86

119.49

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-4.56

-5.21

FILE 'REGISTRY' ENTERED AT 15:29:05 ON 08 FEB 2003

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STRUCTURE FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6

DICTIONARY FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

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<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s methoxymethyloxyandrost

L14 0 METHOXYMETHYLOXYANDROST

=> s 17-hydroxyandrost

441889 17

2/8/2003

09872705

1384 HYDROXYANDROST  
L15 241 17-HYDROXYANDROST  
(17(W)HYDROXYANDROST)

=> s 17-diol, androst

441889 17

327955 DIOL

28126 ANDROST

L16 1 17-DIOL, ANDROST  
(17(W)DIOL(W)ANDROST)

=> d 116

L16 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 376387-73-4 REGISTRY

CN Androst-4-ene-3,17-dione, mixt. with (3.beta.,17.beta.)-androst-5-ene-3,17-diol, androst-5-ene-3,17-dione, antler, 5,7-dihydroxy-2-phenyl-4H-1-benzopyran-4-one, (3.beta.,17.beta.)-estr-5-ene-3,17-diol, estr-4-ene-3,17-dione, and estr-5-ene-3,17-dione (9CI) (CA INDEX NAME)

MF C19 H30 O2 . C19 H26 O2 . C19 H26 O2 . C18 H28 O2 . C18 H24 O2 . C18 H24 O2 . C15 H10 O4 . Unspecified

CI MXS, MAN

SR CA

LC STN Files: CA, CAPLUS

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
29.40	148.89

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-5.21

CA SUBSCRIBER PRICE

FILE 'CAPLUS' ENTERED AT 15:32:58 ON 08 FEB 2003

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FILE COVERS 1907 - 8 Feb 2003 VOL 138 ISS 7  
FILE LAST UPDATED: 7 Feb 2003 (20030207/ED)

2/8/2003

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2/8/2003

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WO 2001087316 A2 20011122 WO 2001-US15404 20010512  
WO 2001087316 A3 20020502

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,  
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,  
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,  
ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2000-570908 A 20000515

IT 376387-73-4

RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL  
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benzopyran-4-one, (3.beta.,17.beta.)-estr-5-ene-3,17-diol,  
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to support testosterone levels and avoid undesirable metabolites.

=> file reg .

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
3.55	152.44

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.65	-5.86

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FILE 'REGISTRY' ENTERED AT 15:34:07 ON 08 FEB 2003

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DICTIONARY FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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=> s 376387-73-4/rn

L18 1 376387-73-4/RN

=> d l18

L18 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 376387-73-4 REGISTRY

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MF C19 H30 O2 . C19 H26 O2 . C19 H26 O2 . C18 H28 O2 . C18 H24 O2 . C18 H24 O2 . C15 H10 O4 . Unspecified

CI MXS, MAN

SR CA

LC STN Files: CA, CAPLUS

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=>



09872705

Welcome to STN International! Enter x:x

LOGINID:ssspta1202sxq

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	4	Apr 09	ZDB will be removed from STN
NEWS	5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (PEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15	Jul 30	NETFIRST to be removed from STN
NEWS	16	Aug 08	CANCERLIT reload
NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	27	Oct 21	EVENTLINE has been reloaded
NEWS	28	Oct 24	BEILSTEIN adds new search fields
NEWS	29	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	30	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS	31	Nov 18	DKILIT has been renamed APOLLIT
NEWS	32	Nov 25	More calculated properties added to REGISTRY
NEWS	33	Dec 02	TIBKAT will be removed from STN
NEWS	34	Dec 04	CSA files on STN
NEWS	35	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	36	Dec 17	TOXCENTER enhanced with additional content
NEWS	37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	38	Dec 30	ISMEC no longer available
NEWS	39	Jan 13	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	40	Jan 21	NUTRACEUT offering one free connect hour in February 2003
NEWS	41	Jan 21	PHARMAML offering one free connect hour in February 2003
NEWS	42	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC

2/8/2003

09872705

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,  
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 15:17:40 ON 08 FEB 2003

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 15:17:50 ON 08 FEB 2003

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DICTIONARY FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6

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<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s testosterone

L1 1208 TESTOSTERONE

=> s dihydrotestosterone

L2 81 DIHYDROTESTOSTERONE

2/8/2003

09872705

```
=> s 17-methoxymethylestr-4-ene-3-one
    441889 17
        6 METHOXYMETHYLESTR
    12125912 4
        3960411 ENE
    11700093 3
        8466567 ONE
L3      0 17-METHOXYMETHYLESTR-4-ENE-3-ONE
        (17 (W) METHOXYMETHYLESTR (W) 4 (W) ENE (W) 3 (W) ONE)
```

=> file caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	35.76	35.97

FILE 'CAPLUS' ENTERED AT 15:20:56 ON 08 FEB 2003  
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FILE COVERS 1907 - 8 Feb 2003 VOL 138 ISS 7  
FILE LAST UPDATED: 7 Feb 2003 (20030207/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s 17-methoxymethylestr-4-ene-3-one
    576129 17
        1 METHOXYMETHYLESTR
    4612880 4
        43571 ENE
    5680123 3
    1625143 ONE
L4      0 17-METHOXYMETHYLESTR-4-ENE-3-ONE
        (17 (W) METHOXYMETHYLESTR (W) 4 (W) ENE (W) 3 (W) ONE)
```

```
=> s 17-methoxymethylestr
    576129 17
        1 METHOXYMETHYLESTR
L5      0 17-METHOXYMETHYLESTR
        (17 (W) METHOXYMETHYLESTR)
```

```
=> s methoxymethylestr
L6      1 METHOXYMETHYLESTR
```

```
=> d 16 ibib hitstr abs
```

2/8/2003

09872705

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1989:126069 CAPLUS

DOCUMENT NUMBER: 110:126069

TITLE: Structure of (4'R)-4'-methoxycarbonyl-17.beta.-methoxymethyl-2,5.beta.-ethanoestr-3-one, a bridged steroid derivative

AUTHOR(S): Preut, Hans; Bathe-Burmeister, Simone; Kreiser, Wolfgang

CORPORATE SOURCE: Fachbereich Chem., Univ. Dortmund, Dortmund, D-4600/50, Fed. Rep. Ger.

SOURCE: Acta Crystallographica, Section C: Crystal Structure Communications (1989), C45(1), 171-3  
CODEN: ACSCEE; ISSN: 0108-2701

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The title compd. is monoclinic, space group C2, with a 12.978(7), b 7.076(5), c 24.598(9) .ANG., and .beta. 97.20(5).degree.; dc = 1.199 for Z = 4. The final R = 0.048 for 2915 reflections. At. coordinates are given. The constitution and configuration of the title product from the reaction of 17.beta.-methoxymethylestr-4-en-3-one with Me acrylate was clarified by x-ray anal. The newly introduced methoxycarbonylethane bridge was located on the .beta.-face. The chiral center at C(4') displays R configuration.

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	19.16	55.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.65	-0.65

FILE 'REGISTRY' ENTERED AT 15:22:48 ON 08 FEB 2003

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6

DICTIONARY FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s methoxymethylestr/rn

L7 0 METHOXYMETHYLESTR/RN

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=> s methoxymethylestr  
L8 6 METHOXYMETHYLESTR

=> d l8 1-6

L8 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2003 ACS

RN 58212-69-4 REGISTRY

CN Estra-1,3,5(10)-triene-3,16,17-triol, 11-(methoxymethyl)-,  
(11.beta.,16.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

OTHER NAMES:

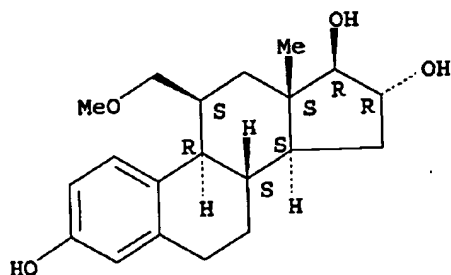
CN 11.beta.-Methoxymethylestriol

FS STEREOSEARCH

MF C20 H28 O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5 REFERENCES IN FILE CA (1962 TO DATE)

5 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2003 ACS

RN 54502-65-7 REGISTRY

CN Estr-4-en-3-one, 17-hydroxy-7-(methoxymethyl)-, (7.alpha.,17.beta.)- (9CI)  
(CA INDEX NAME)

OTHER NAMES:

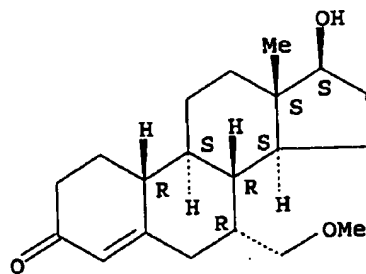
CN 17.beta.-Hydroxy-7.alpha.-methoxymethylestr-4-en-3-one

FS STEREOSEARCH

MF C20 H30 O3

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

Absolute stereochemistry.



2/8/2003

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**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

2 REFERENCES IN FILE CA (1962 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2003 ACS

RN 54502-50-0 REGISTRY

CN 19-Norpregn-4-en-20-yn-17-ol, 7-(methoxymethyl)-, (7.alpha.,17.alpha.)-(9CI) (CA INDEX NAME)

**OTHER NAMES:**

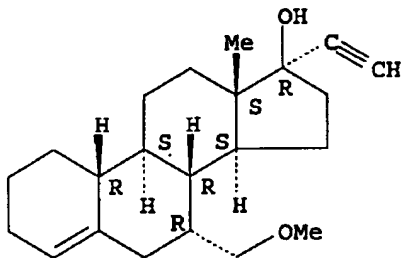
CN 17-Ethynyl-7.alpha.-methoxymethylestr-4-en-17.beta.-ol

FS STEREOSEARCH

MF C22 H32 O2

LC STN Files: BEILSTEIN\*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry.



**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

2 REFERENCES IN FILE CA (1962 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2003 ACS

RN 54502-49-7 REGISTRY

CN Estr-4-en-17-one, 7-(methoxymethyl)-, (7.alpha.)- (9CI) (CA INDEX NAME)

**OTHER NAMES:**

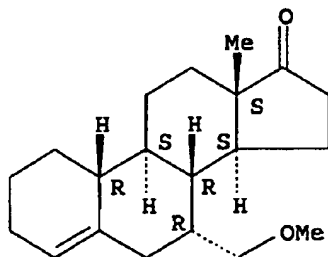
CN 7.alpha.-Methoxymethylestr-4-en-17-one

FS STEREOSEARCH

MF C20 H30 O2

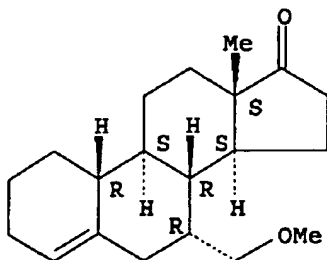
LC STN Files: BEILSTEIN\*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry.



2/8/2003

09872705

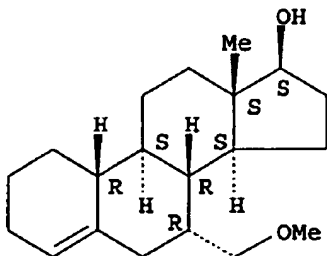


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1962 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2003 ACS  
RN 54502-48-6 REGISTRY  
CN Estr-4-en-17-ol, 7-(methoxymethyl)-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 7.alpha.-Methoxymethylestr-4-en-17.beta.-ol  
FS STEREOSEARCH  
MF C20 H32 O2  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

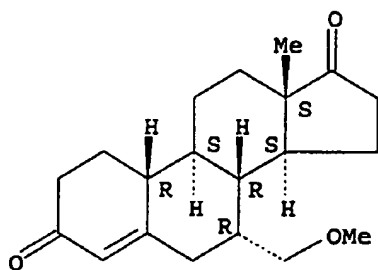
2 REFERENCES IN FILE CA (1962 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L8 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2003 ACS  
RN 54502-44-2 REGISTRY  
CN Estr-4-ene-3,17-dione, 7-(methoxymethyl)-, (7.alpha.)- (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 7.alpha.-Methoxymethylestr-4-ene-3,17-dione  
FS STEREOSEARCH  
MF C20 H28 O3  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL  
(\*File contains numerically searchable property data)

2/8/2003

09872705

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1962 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
15.50	70.63

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-0.65

CA SUBSCRIBER PRICE

FILE 'CAPLUS' ENTERED AT 15:24:20 ON 08 FEB 2003

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FILE COVERS 1907 - 8 Feb 2003 VOL 138 ISS 7

FILE LAST UPDATED: 7 Feb 2003 (20030207/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 15:17:40 ON 08 FEB 2003)

FILE 'REGISTRY' ENTERED AT 15:17:50 ON 08 FEB 2003

2/8/2003



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L1 1208 S TESTOSTERONE  
L2 81 S DIHYDROTESTOSTERONE  
L3 0 S 17-METHOXYMETHYLESTR-4-ENE-3-ONE

FILE 'CAPLUS' ENTERED AT 15:20:56 ON 08 FEB 2003  
L4 0 S 17-METHOXYMETHYLESTR-4-ENE-3-ONE  
L5 0 S 17-METHOXYMETHYLESTR  
L6 1 S METHOXYMETHYLESTR

FILE 'REGISTRY' ENTERED AT 15:22:48 ON 08 FEB 2003  
L7 0 S METHOXYMETHYLESTR/RN  
L8 6 S METHOXYMETHYLESTR

FILE 'CAPLUS' ENTERED AT 15:24:20 ON 08 FEB 2003

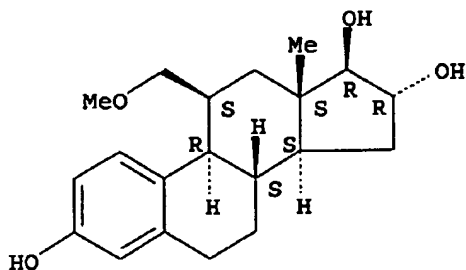
=> s l8

L9 7 L8

=> d l9 1-9 ibib hitstr abs

L9 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1984:433459 CAPLUS  
DOCUMENT NUMBER: 101:33459  
TITLE: Estrogen-binding proteins in the female genital tract  
AUTHOR(S): Bergink, E. W.; Kloosterboer, H. J.; Van der Vies, J.  
CORPORATE SOURCE: Sci. Dev. Group, Organon Int. B.V., Oss, Neth.  
SOURCE: Journal of Steroid Biochemistry (1984), 20(4B),  
1057-60  
CODEN: JSTBBK; ISSN: 0022-4731  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 58212-69-4  
RL: BIOL (Biological study)  
(protein binding of, in vagina of women, myometrium and breast tumor in  
relation to)  
RN 58212-69-4 CAPLUS  
CN Estr-1,3,5(10)-triene-3,16,17-triol, 11-(methoxymethyl)-,  
(11.beta.,16.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB The binding characteristics of an estrogen-binding protein in the human vagina and in the human myometrium were examd. The specificities of these binding proteins were analyzed in binding studies using competitors and ligands with different structural features representing the various elements considered of importance for binding. The specificity of an estrogen-binding protein in human myometrium was similar to those of

2/8/2003

estrogen-binding proteins in human breast tumor tissue and in human MCF-7 cells. This specificity was also similar to those of estrogen receptors in myometrium, endometrium, and vagina of the rat. However, the specificity of an estrogen-binding protein in the vagina of postmenopausal patients was different. The vaginal estrogen-binding displayed similar high affinities for 17.β-estradiol [50-28-2], 17.α-estradiol [57-91-0], and estriol [50-27-1] but low affinity for DES [56-53-1]. The equil. dissocn. consts. for [3H]estriol and [3H]17.β-estradiol were 4.3 .times. 10<sup>-10</sup> M and 4.0 .times. 10<sup>-10</sup> M, resp., and the concn. of this protein varied between 30 and 170 fmol/mg vaginal cytosol protein. Apparently, the human vagina contains an estrogen-binding protein with characteristics different from those of estrogen receptors present in myometrium and breast tumor tissue.

L9 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1984:96847 CAPLUS

DOCUMENT NUMBER: 100:96847

TITLE: Specificity of an estrogen binding protein in the human vagina compared with that of estrogen receptors in different tissues from different species

AUTHOR(S): Bergink, B. W.; Kloosterboer, H. J.; Van der Velden, W. H. M.; Van der Vies, J.; De Winter, M. S.

CORPORATE SOURCE: Sci. Dev. Group, Organon Int. B.V., Oss, Neth.

SOURCE: Progress in Cancer Research and Therapy (1983), 25(Steroids Endometrial Cancer), 77-84

CODEN: PCRTDK; ISSN: 0145-3726

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 58212-69-4

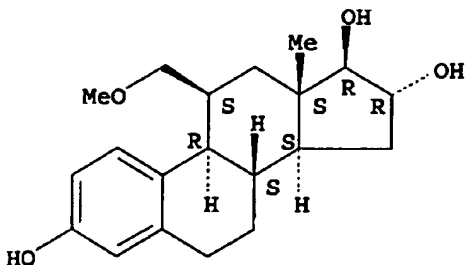
RL: PROC (Process)

(estrogen receptor binding of, in human and lab. animals, structure in relation to)

RN 58212-69-4 CAPLUS

CN Estra-1,3,5(10)-triene-3,16,17-triol, 11-(methoxymethyl)-, (11.β.,16.α.,17.β.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Estrogen-binding proteins from the myometrium, pituitary, thymus, and vagina of the rabbit; myometrium, endometrium, and vagina of the rat; and myometrium, breast tumor tissue, and MCF-7 cells of the human all displayed similar specificities with characteristics of an estrogen receptor. However, the specificity of the estrogen-binding protein in the human vagina was different from that of the human estrogen receptor; the estrogen-binding protein displayed high affinities for 17.β-estradiol [50-28-2], 17.α-estradiol [57-91-0], and estriol [50-27-1], but a relatively low affinity for stilbestrol [56-53-1]. Structural

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requirements of estrogens for binding to the estrogen receptor in the rabbit myometrium were detd. and discussed.

L9 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1981:150860 CAPLUS

DOCUMENT NUMBER: 94:150860

TITLE: A quantitative test for estrogenic activity using rat endometrium lactate dehydrogenase

AUTHOR(S): Jelinkova, Marta; Jelinek, J.; De Visser, J.; Van der Vies, J.

CORPORATE SOURCE: Endocrinol Lab., Organon Int. B. V., Oss, Neth.

SOURCE: Acta Endocrinologica (1981), 96(3), 389-93

CODEN: ACENA7; ISSN: 0001-5598

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 58212-69-4

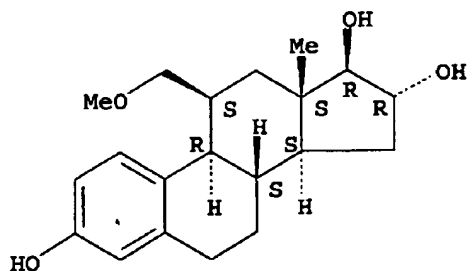
RL: BIOL (Biological study)

(lactate dehydrogenase of uterus endometrium stimulation by, estrogenic activity in relation to)

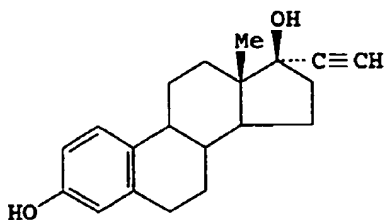
RN 58212-69-4 CAPLUS

CN Estradiol-1,3,5(10)-triene-3,16,17-triol, 11-(methoxymethyl)-, (11.beta.,16.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI



I

AB In ovariectomized rats, oral treatment with ethynylestradiol (I) [57-63-6] started 1 wk after castration and given for 4 days dose-dependently increased endometrial lactate dehydrogenase (LDH) [9001-60-9] per DNA (LDH/DNA). In subsequent expts., I was used as a std. and the estrogenic activity of 4 steroids given orally was compared. The effect of testosterone [58-22-0] was studied using estradiol as a std. If the activity of I is 1, the relative estrogenic potencies of estradiol 16,17-disuccinate [514-68-1], estradiol decanoate [61748-93-4],

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11.beta.-methoxymethyl-17.alpha.-ethinyl-1,3,5(10)-estratriene-3,17.beta.-diol [58212-59-2] and 11.beta.-methoxymethyl-1,3,5(10)-estratriene-3,16.alpha.,17.beta.-triol [58212-69-4] were 0.074, 0.7, 12.5, and 32, resp. The results of the test were compared with the relative potencies of these 4 compds. in 2 biol. tests, viz. the vaginal cornification in ovariectomized adult rats and stimulation of the uterine growth in immature intact rats. The relative estrogenic potencies as measured by an increase in the endometrial LDH/DNA were in better agreement with those found in the vaginal cornification assay than with those in the uterine growth stimulation test. Testosterone caused no changes of LDH/DNA. Thus, the increase in LDH/DNA in the endometrium of ovariectomized rats can be used as a quant. assay for estrogenic potency.

L9 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1980:408388 CAPLUS

DOCUMENT NUMBER: 93:8388

TITLE: 7-Hydroxymethyl and -methoxymethyl steroids of the estrane series

PATENT ASSIGNEE(S): AKZO N. V., Neth.

SOURCE: Israeli, 32 pp.

CODEN: ISXXAQ

DOCUMENT TYPE: Patent

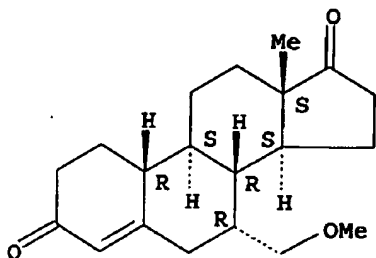
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IL 45022	A1	19780929	IL 1974-45022	19740612
PRIORITY APPLN. INFO.:			IL 1974-45022	19740612
IT 54502-44-2P 54502-48-6P 54502-49-7P				
54502-50-0P 54502-65-7P				
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)				
RN	54502-44-2 CAPLUS			
CN	Estr-4-ene-3,17-dione, 7-(methoxymethyl)-, (7.alpha.)- (9CI) (CA INDEX NAME)			

Absolute stereochemistry.



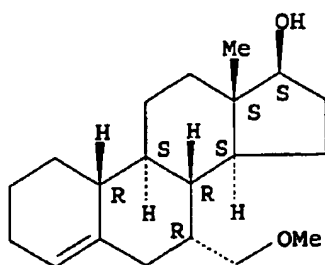
RN 54502-48-6 CAPLUS

CN Estr-4-en-17-ol, 7-(methoxymethyl)-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

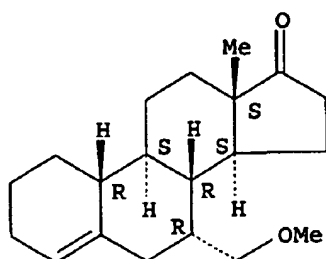
2/8/2003

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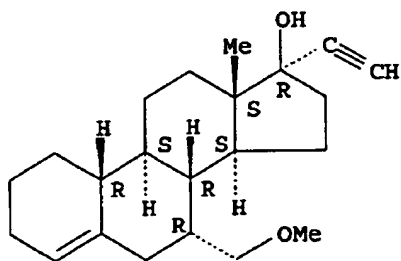
RN 54502-49-7 CAPLUS  
CN Estr-4-en-17-one, 7-(methoxymethyl)-, (7.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 54502-50-0 CAPLUS  
CN 19-Norpregn-4-en-20-yn-17-ol, 7-(methoxymethyl)-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

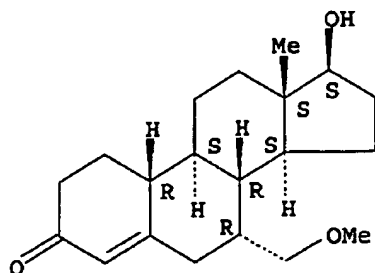
Absolute stereochemistry.



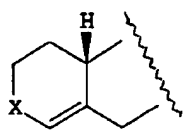
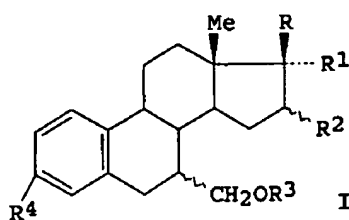
RN 54502-65-7 CAPLUS  
CN Estr-4-en-3-one, 17-hydroxy-7-(methoxymethyl)-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

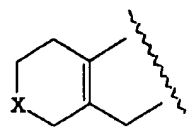
2/8/2003



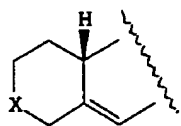
GI



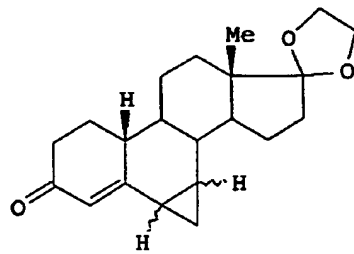
II



III



IV



V

AB Unsatd. (hydroxymethyl)estranses I-IV [R = HO, acyloxy, tetrahydropyranyloxy; R1 = H, C.tplbond.CH; RR1 = O; R2 = H, HO, C1-18 acyloxy; R3 = H, Me, Ac; R4 = H, HO, AcO, BzO, MeO; X = CH2, CO, CH(OAc)] were prepd. Thus, cyclocondensation of Me2S(O):CH2 with 17,17-(ethylenedioxy)estra-4,6-dien-3-one gave the isomeric methyleneestradienones V, which underwent deketalization and then ring cleavage in MeOH contg. BF3.OEt2 to give 7.alpha.- and 7.beta.- (methoxymethyl)estr-4-ene-3,17-dione.

L9 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1977:552464 CAPLUS

DOCUMENT NUMBER: 87:152464

TITLE: Estriol derivatives

PATENT ASSIGNEE(S): AKZO N. V., Neth.

SOURCE: Neth. Appl., 15 pp.

CODEN: NAXXAN

DOCUMENT TYPE: Patent

LANGUAGE: Dutch

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

09872705

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 7603930	A	19761018	NL 1976-3930	19760414
ZA 7502358	A	19760331	ZA 1975-2358	19750414
PRIORITY APPLN. INFO.:			ZA 1975-2358	19750414
			NL 1974-5626	19740426

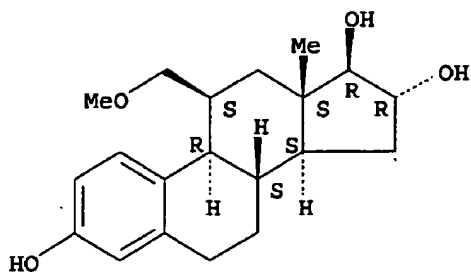
IT 58212-69-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. and esterification of)

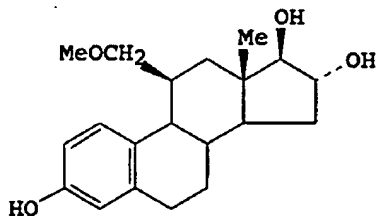
RN 58212-69-4 CAPLUS

CN Estrane-1,3,5(10)-triene-3,16,17-triol, 11-(methoxymethyl)-,  
(11.beta.,16.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

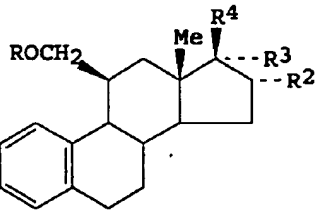
Absolute stereochemistry.



GI



I



II

AB The estriol deriv. I was prepd. by ketalizing 3-methoxy-11-methylene-1,3,5(10)-estratrien-17-one, reducing the ketal with B2H6, methylating II (R = R2 = H, R1 = Me, R3R4 = OCH2CH2O), deblocking II (R = R1 = Me, R2 = H, R3R4 = OCH2CH2O), acetylating II (R = Me, R1 = R2 = H, R3R4 = O), epoxidizing II (R = Me, R1 = Ac, R2R3 = bond, R4 = OAc), and reducing II (R = Me, R1 = H, R2R3 = O, R4 = OH). II (R = R2 = H, R1 = Me, R3R4 = O) was obtained from an ethylene ketal and treated with CHFC1CF2NEt2 to give 3-methoxy-11.beta.-(fluoromethyl)estra-1,3,5(10)-trien-17-one.

L9 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1976:59867 CAPLUS

DOCUMENT NUMBER: 84:59867

TITLE: Estrane steroids substituted in the 11-position

INVENTOR(S): Van den Broek, Albertus Joannes; De Winter, Max S.

PATENT ASSIGNEE(S): AKZO N. V., Neth.

SOURCE: Ger. Offen., 31 pp.

CODEN: GWXXBX

2/8/2003

09872705

DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2518547	A1	19751113	DE 1975-2518547	19750425
NL 7405626	A	19751028	NL 1974-5626	19740426
US 3972906	A	19760803	US 1975-568334	19750415
AU 7580248	A1	19761021	AU 1975-80248	19750417
GB 1502326	A	19780301	GB 1975-16058	19750418
ES 436846	A1	19761201	ES 1975-436846	19750422
CH 618181	A	19800715	CH 1975-5112	19750422
FI 7501214	A	19751027	FI 1975-1214	19750423
FI 55209	C	19790611		
FI 55209	B	19790228		
HU 172440	P	19780928	HU 1975-AO411	19750423
DK 7501814	A	19751027	DK 1975-1814	19750424
DK 138697	C	19790430		
DK 138697	B	19781016		
AT 359213	B	19801027	AT 1975-3184	19750424
SE 7504809	A	19751027	SE 1975-4809	19750425
SE 416054	B	19801124		
SE 416054	C	19810312		
BE 828447	A1	19751027	BE 1975-155829	19750425
JP 50142556	A2	19751117	JP 1975-50606	19750425
FR 2268528	A1	19751121	FR 1975-13070	19750425
FR 2268528	B1	19800125		
CA 1056370	A1	19790612	CA 1975-225448	19750425
DK 7701061	A	19770311	DK 1977-1061	19770311
PRIORITY APPLN. INFO.:			NL 1974-5626	19740426
			DK 1975-1814	19750424

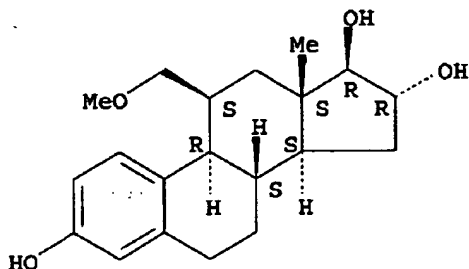
IT 58212-69-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)

RN 58212-69-4 CAPLUS

CN Estrane-1,3,5(10)-triene-3,16,17-triol, 11-(methoxymethyl)-,  
 (11.beta.,16.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI For diagram(s), see printed CA Issue.

AB Estrenes I-III (R = OH, OMe; R1 = OH, OMe, Cl; R2 = OH, n-C9H19CO2, AcO, R3 = C.tplbond.CH, allyl, OH; R2R3 = O, R4 = H, OH; R = OH, R5 = H, RR5 = O) (26 compds.), useful as contraceptives (no data) were prepd. Thus, 2 g IV underwent successive Grignard reaction with MeOCH2Cl, dehydration, acid

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hydrolysis, and hydrogenation to give 0.3 g I (R = MeO, R1 = MeO, R2R3 = O, R4 = H). Ethynylation of 0.9 g I (R = MeO, R1 = HO, R2R3 = O, R4 = H) followed by acetylation gave 0.6 g I (R = MeO, R1 = HO, R2 = AcO, R3 = C.tplbond.CH, R4 = H).

L9 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1975:43655 CAPLUS  
DOCUMENT NUMBER: 82:43655  
TITLE: Estrane derivatives substituted in the 7-position  
INVENTOR(S): Van den Broek, Albertus J.; De Visser, Jacob  
PATENT ASSIGNEE(S): AKZO N. V.  
SOURCE: Ger. Offen., 30 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2417846	A1	19741024	DE 1974-2417846	19740411
NL 7305171	A	19741015	NL 1973-5171	19730413
US 3944576	A	19760316	US 1974-455488	19740327
GB 1469650	A	19770406	GB 1974-13621	19740327
ZA 7401999	A	19750326	ZA 1974-1999	19740328
AU 7467531	A1	19751009	AU 1974-67531	19740404
JP 50024262	A2	19750315	JP 1974-40663	19740410
ES 425224	A1	19760516	ES 1974-425224	19740410
DK 134757	B	19770110	DK 1974-2016	19740410
SE 405364	C	19790315	SE 1974-5000	19740411
SE 405364	B	19781204		
BE 813702	A1	19741014	BE 1974-143192	19740412
FR 2225163	A1	19741108	FR 1974-12945	19740412
HU 170245	P	19770528	HU 1974-AO381	19740412
AT 349658	B	19790425	AT 1974-3135	19740416
			NL 1973-5171	19730413

PRIORITY APPLN. INFO.:

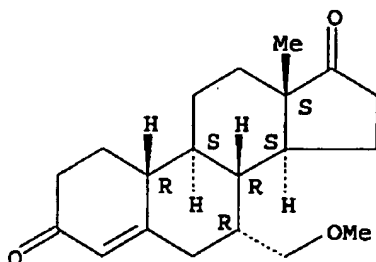
IT 54502-44-2P 54502-48-6P 54502-49-7P  
54502-50-0P 54502-65-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 54502-44-2 CAPLUS

CN Estr-4-ene-3,17-dione, 7-(methoxymethyl)-, (7.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



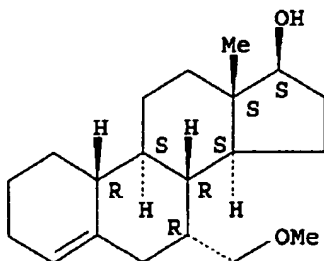
RN 54502-48-6 CAPLUS

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CN Estr-4-en-17-ol, 7-(methoxymethyl)-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

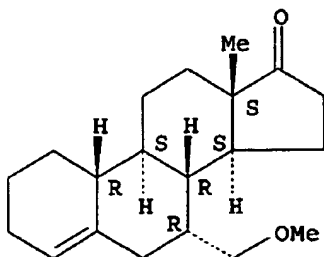
Absolute stereochemistry.



RN 54502-49-7 CAPLUS

CN Estr-4-en-17-one, 7-(methoxymethyl)-, (7.alpha.)- (9CI) (CA INDEX NAME)

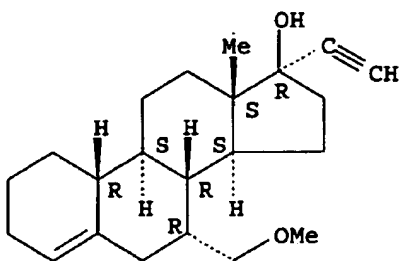
Absolute stereochemistry.



RN 54502-50-0 CAPLUS

CN 19-Norpregn-4-en-20-yn-17-ol, 7-(methoxymethyl)-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

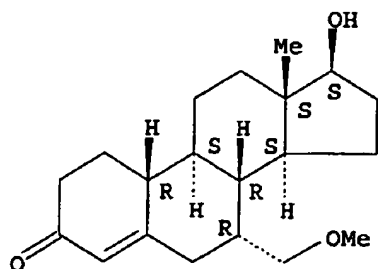


RN 54502-65-7 CAPLUS

CN Estr-4-en-3-one, 17-hydroxy-7-(methoxymethyl)-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

2/8/2003



GI For diagram(s), see printed CA Issue.

AB Estrenes I (X = H<sub>2</sub>, O; R = H, Me, Ac; R<sub>1</sub> = H, HC.tplbond.C; R<sub>2</sub> = HO; R<sub>1</sub>R<sub>2</sub> = O) and estratrienes II (R = H, Me, Ac; R<sub>1</sub> = H, HC.tplbond.C; R<sub>2</sub> = HO; R<sub>1</sub>R<sub>2</sub> = O; R<sub>3</sub> = H, Me, Ac) 17 compds.) were prepd. from estradiene III by 1) Wittig methylenation followed by treatment with BF<sub>3</sub>.Et<sub>2</sub>O and MeOH, 2) by hydrocyanation followed by hydrolysis and redn. of the resulting acid, and from estratrienedione IV (R<sub>4</sub> = H, Me; X = O; R<sub>1</sub>R<sub>2</sub> = OCH<sub>2</sub>CH<sub>2</sub>O) by 1) Wittig methylenation and treatment with Et<sub>2</sub>O.BF<sub>3</sub> and MeOH and 2) by Wittig methoxymethylenation and hydrogenation. Thus, IV (X = O, R<sub>1</sub>R<sub>2</sub> = OCH<sub>2</sub>CH<sub>2</sub>O, R<sub>4</sub> = H) was treated with (MeOCH<sub>2</sub>)Ph<sub>3</sub>P+Cl<sup>-</sup> to give IV (X = MeOCH), which was hydrogenated and deketalized to give II (R = Me, R<sub>1</sub>R<sub>2</sub> = O, R<sub>3</sub> = Me).

=>

=> s methoxymethoxyandrost

L10 0 METHOXYMETHYOXYANDROST

=> s methoxymethyloxyandrost

L11 0 METHOXYMETHYLOXYANDROST

=> s methoxymethyloxyandrost-1,4-diene

0 METHOXYMETHYLOXYANDROST

7426203 1

4612880 4

57582 DIENE

L12 0 METHOXYMETHYLOXYANDROST-1,4-DIENE

(METHOXYMETHYLOXYANDROST(W)1(W)4(W)DIENE)

=> s methoxymethyloxyandrost-1

0 METHOXYMETHYLOXYANDROST

7426203 1

L13 0 METHOXYMETHYLOXYANDROST-1

(METHOXYMETHYLOXYANDROST(W)1)

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

48.86

119.49

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-4.56

-5.21

FILE 'REGISTRY' ENTERED AT 15:29:05 ON 08 FEB 2003

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STRUCTURE FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6  
DICTIONARY FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s methoxymethyloxyandrost  
L14 0 METHOXYMETHYLOXYANDROST

=> s 17-hydroxyandrost  
441889 17  
1384 HYDROXYANDROST  
L15 241 17-HYDROXYANDROST  
(17(W)HYDROXYANDROST)

=> s 17-diol, androst  
441889 17  
327955 DIOL  
28126 ANDROST  
L16 1 17-DIOL, ANDROST  
(17(W)DIOL(W)ANDROST)

=> d l16

L16 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS  
RN 376387-73-4 REGISTRY  
CN Androst-4-ene-3,17-dione, mixt. with (3.beta.,17.beta.)-androst-5-ene-3,17-diol, androst-5-ene-3,17-dione, antler, 5,7-dihydroxy-2-phenyl-4H-1-benzopyran-4-one, (3.beta.,17.beta.)-estr-5-ene-3,17-diol, estr-4-ene-3,17-dione, and estr-5-ene-3,17-dione (9CI) (CA INDEX NAME)  
MF C19 H30 O2 . C19 H26 O2 . C19 H26 O2 . C18 H28 O2 . C18 H24 O2 . C18 H24 O2 . C15 H10 O4 . Unspecified  
CI MXS, MAN  
SR CA  
LC STN Files: CA, CAPLUS

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> file caplus  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
29.40	148.89

2/8/2003

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.21

FILE 'CAPLUS' ENTERED AT 15:32:58 ON 08 FEB 2003  
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FILE COVERS 1907 - 8 Feb 2003 VOL 138 ISS 7  
FILE LAST UPDATED: 7 Feb 2003 (20030207/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 15:17:40 ON 08 FEB 2003)

FILE 'REGISTRY' ENTERED AT 15:17:50 ON 08 FEB 2003

L1 1208 S TESTOSTERONE  
L2 81 S DIHYDROTESTOSTERONE  
L3 0 S 17-METHOXYMETHYLESTR-4-ENE-3-ONE

FILE 'CAPLUS' ENTERED AT 15:20:56 ON 08 FEB 2003

L4 0 S 17-METHOXYMETHYLESTR-4-ENE-3-ONE  
L5 0 S 17-METHOXYMETHYLESTR  
L6 1 S METHOXYMETHYLESTR

FILE 'REGISTRY' ENTERED AT 15:22:48 ON 08 FEB 2003

L7 0 S METHOXYMETHYLESTR/RN  
L8 6 S METHOXYMETHYLESTR

FILE 'CAPLUS' ENTERED AT 15:24:20 ON 08 FEB 2003

L9 7 S L8  
L10 0 S METHOXYMETHYLOXYANDROST  
L11 0 S METHOXYMETHYLOXYANDROST  
L12 0 S METHOXYMETHYLOXYANDROST-1,4-DIENE  
L13 0 S METHOXYMETHYLOXYANDROST-1

FILE 'REGISTRY' ENTERED AT 15:29:05 ON 08 FEB 2003

L14 0 S METHOXYMETHYLOXYANDROST  
L15 241 S 17-HYDROXYANDROST  
L16 1 S 17-DIOL, ANDROST

FILE 'CAPLUS' ENTERED AT 15:32:58 ON 08 FEB 2003

2/8/2003

09872705

=> s 116  
L17

1 L16

=> d 117 ibib hitstr abs

L17 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:850953 CAPLUS

DOCUMENT NUMBER: 136:11113

TITLE: Composition containing deer antler, nor-testosterone and testosterone precursors and aromatase and 5.alpha.-reductase inhibitors to increase testosterone levels

INVENTOR(S): Yegorova, Inna

PATENT ASSIGNEE(S): Braswell, Glenn A., USA

SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001087316	A2	20011122	WO 2001-US15404	20010512
WO 2001087316	A3	20020502		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.:

US 2000-570908 A 20000515

IT 376387-73-4

RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(compn. contg. deer antler, nortestosterone and testosterone precursors and aromatase and 5.alpha.-reductase inhibitors to increase testosterone levels)

RN 376387-73-4 CAPLUS

CN Androst-4-ene-3,17-dione, mixt. with (3.beta.,17.beta.)-androst-5-ene-3,17-diol, androst-5-ene-3,17-dione, antler, 5,7-dihydroxy-2-phenyl-4H-1-benzopyran-4-one, (3.beta.,17.beta.)-estr-5-ene-3,17-diol, estr-4-ene-3,17-dione, and estr-5-ene-3,17-dione (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

AB This invention provides compns. and methods related to the administration of deer antler, one or more nor-testosterone precursors, and one or more testosterone precursors, to increase testosterone levels, treat sexual dysfunction, improve sexual function, improve energy, enhance feelings of well-being and increase muscle mass in males. This invention also provides for inhibitors of the enzymes aromatase and/or 5-alpha reductase, to support testosterone levels and avoid undesirable metabolites.

=> file reg

2/8/2003

09872705

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.55	152.44
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.65	-5.86

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STRUCTURE FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6  
DICTIONARY FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STN Note 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s 376387-73-4/rn  
L18 1 376387-73-4/RN

=> d l18

L18 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS  
RN 376387-73-4 REGISTRY  
CN Androst-4-ene-3,17-dione, mixt. with (3.beta.,17.beta.)-androst-5-ene-3,17-  
diol, androst-5-ene-3,17-dione, antler, 5,7-dihydroxy-2-phenyl-4H-1-  
benzopyran-4-one, (3.beta.,17.beta.)-estr-5-ene-3,17-diol,  
estr-4-ene-3,17-dione, and estr-5-ene-3,17-dione (9CI) (CA INDEX NAME)  
MF C19 H30 O2 . C19 H26 O2 . C19 H26 O2 . C18 H28 O2 . C18 H24 O2 . C18 H24  
O2 . C15 H10 O4 . Unspecified  
CI MXS, MAN  
SR CA  
LC STN Files: CA, CAPLUS

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

2/8/2003

09872705

```
=>
=> s methoxymethoxyandrost
L10      0 METHOXYMETHYOXYANDROST

=> s methoxymethyloxyandrost
L11      0 METHOXYMETHYLOXYANDROST

=> s methoxymethyloxyandrost-1,4-diene
      0 METHOXYMETHYLOXYANDROST
      7426203 1
      4612880 4
      57582 DIENE
L12      0 METHOXYMETHYLOXYANDROST-1,4-DIENE
      (METHOXYMETHYLOXYANDROST(W)1(W)4(W)DIENE)

=> s methoxymethyloxyandrost-1
      0 METHOXYMETHYLOXYANDROST
      7426203 1
L13      0 METHOXYMETHYLOXYANDROST-1
      (METHOXYMETHYLOXYANDROST(W)1)
```

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	48.86	119.49
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-4.56	-5.21

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STRUCTURE FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6  
DICTIONARY FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

```
=> s methoxymethyloxyandrost
L14      0 METHOXYMETHYLOXYANDROST
```

```
=> s 17-hydroxyandrost
      441889 17
```

2/8/2003



09872705

1384 HYDROXYANDROST  
L15 241 17-HYDROXYANDROST  
(17(W)HYDROXYANDROST)

=> s 17-diol, androst  
441889 17  
327955 DIOL  
28126 ANDROST  
L16 1 17-DIOL, ANDROST  
(17(W)DIOL(W)ANDROST)

=> d 116

L16 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS  
RN 376387-73-4 REGISTRY  
CN Androst-4-ene-3,17-dione, mixt. with (3.beta.,17.beta.)-androst-5-ene-3,17-diol, androst-5-ene-3,17-dione, antler, 5,7-dihydroxy-2-phenyl-4H-1-benzopyran-4-one, (3.beta.,17.beta.)-estr-5-ene-3,17-diol, estr-4-ene-3,17-dione, and estr-5-ene-3,17-dione (9CI) (CA INDEX NAME)  
MF C19 H30 O2 . C19 H26 O2 . C19 H26 O2 . C18 H28 O2 . C18 H24 O2 . C18 H24 O2 . C15 H10 O4 . Unspecified  
CI MXS, MAN  
SR CA  
LC STN Files: CA, CAPLUS

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
	29.40	148.89
FULL ESTIMATED COST		
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
	0.00	-5.21
CA SUBSCRIBER PRICE		

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FILE COVERS 1907 - 8 Feb 2003 VOL 138 ISS 7  
FILE LAST UPDATED: 7 Feb 2003 (20030207/ED)

2/8/2003

0203513

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	4	Apr 09	ZDB will be removed from STN
NEWS	5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15	Jul 30	NETFIRST to be removed from STN
NEWS	16	Aug 08	CANCERLIT reload
NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	27	Oct 21	EVENTLINE has been reloaded
NEWS	28	Oct 24	BEILSTEIN adds new search fields
NEWS	29	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	30	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS	31	Nov 18	DKILIT has been renamed APOLLIT
NEWS	32	Nov 25	More calculated properties added to REGISTRY
NEWS	33	Dec 02	TIBKAT will be removed from STN
NEWS	34	Dec 04	CSA files on STN
NEWS	35	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	36	Dec 17	TOXCENTER enhanced with additional content
NEWS	37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	38	Dec 30	ISMEC no longer available
NEWS	39	Jan 13	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	40	Jan 21	NUTRACEUT offering one free connect hour in February 2003
NEWS	41	Jan 21	PHARMAML offering one free connect hour in February 2003
NEWS	42	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC

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NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,  
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 11:32:48 ON 10 FEB 2003

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
	0.21	0.21
FULL ESTIMATED COST		

FILE 'REGISTRY' ENTERED AT 11:32:54 ON 10 FEB 2003  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6  
DICTIONARY FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s testosterone  
L1 1208 TESTOSTERONE  
  
=> s 4-androstenediol  
12125912 4  
21 ANDROSTENEDIOL

2/8/2003

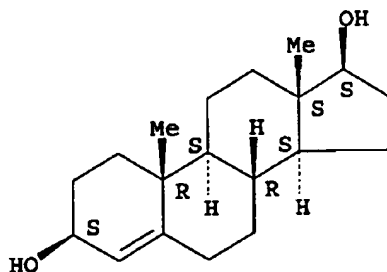
10203513

L2 1 4-ANDROSTENEDIOL  
(4 (W) ANDROSTENEDIOL)

=> d 12

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS  
RN 1156-92-9 REGISTRY  
CN Androst-4-ene-3,17-diol, (3.beta.,17.beta.)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Androst-4-ene-3.beta.,17.beta.-diol (7CI, 8CI)  
OTHER NAMES:  
CN .DELTA.4-Androstene-3.beta.,17.beta.-diol  
CN 3.beta.,17.beta.-Dihydroxy-4-androstene  
CN 4-Androstenediol  
FS STEREOSEARCH  
MF C19 H30 O2  
LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CEN,  
CHEMCATS, CIN, CSCHM, EMBASE, TOXCENTER, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

190 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
190 REFERENCES IN FILE CAPLUS (1962 TO DATE)  
29 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

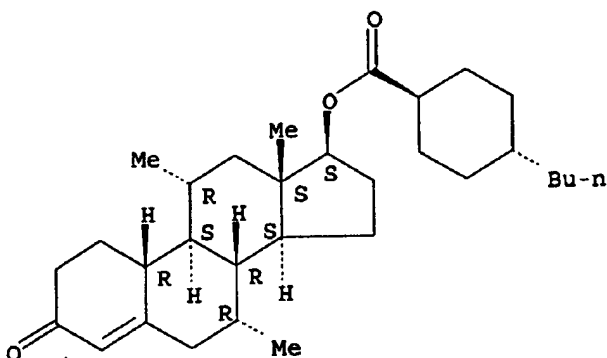
=> d 11 1-2

L1 ANSWER 1 OF 1208 REGISTRY COPYRIGHT 2003 ACS  
RN 366472-55-1 REGISTRY  
CN Estr-4-en-3-one, 17-[[[(trans-4-butylcyclohexyl)carbonyl]oxy]-7,11-dimethyl-, (7.alpha.,11.alpha.,17.beta.)- (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 7.alpha.,11.alpha.-Dimethyl-19-nortestosterone-17.beta.-bucyclate  
CN CDB 4386  
FS STEREOSEARCH  
MF C31 H48 O3  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

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10203513



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

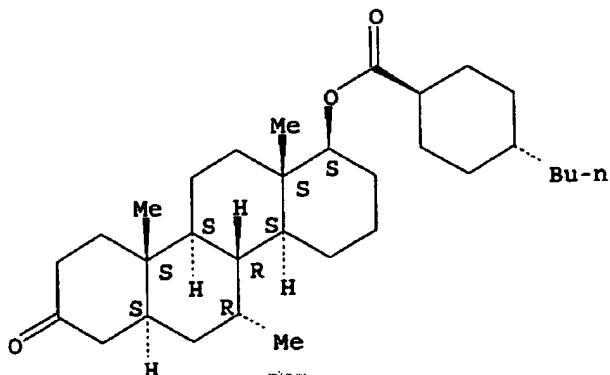
1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L1 ANSWER 2 OF 1208 REGISTRY COPYRIGHT 2003 ACS  
RN 366472-53-9 REGISTRY  
CN Cyclohexanecarboxylic acid, 4-butyl-, (1S,4aS,4bR,5R,6aS,10aS,10bS,12aS)-  
octadecahydro-5,10a,12a-trimethyl-8-oxo-1-chrysenyl ester, trans- (9CI)  
(CA INDEX NAME)

OTHER NAMES:

CN 7.alpha.-Methyl-D-homo-testosterone-17.beta.-bucyclate  
FS STEREOSEARCH  
MF C32 H52 O3  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> s testosterone/rn

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L3 0 TESTOSTERONE/RN

=> s testosterone

L4 1208 TESTOSTERONE

=> d 11 10-11

L1 ANSWER 10 OF 1208 REGISTRY COPYRIGHT 2003 ACS

RN 253584-12-2 REGISTRY

CN Cytochrome P 450 (Cricetulus griseus gene CYP2A15 isoform 2A15) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN GenBank AB022916-derived protein GI 5804792

CN Testosterone 7.alpha.-hydroxylase (Chinese hamster)

FS PROTEIN SEQUENCE

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L1 ANSWER 11 OF 1208 REGISTRY COPYRIGHT 2003 ACS

RN 252766-07-7 REGISTRY

CN Estr-4-en-3-one, 17-[[[(trans-4-butylcyclohexyl)carbonyl]oxy]-7-methyl-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7.alpha.-Methyl-19-nortestosterone-17.beta.-bucyclate

CN MENT bucyclate

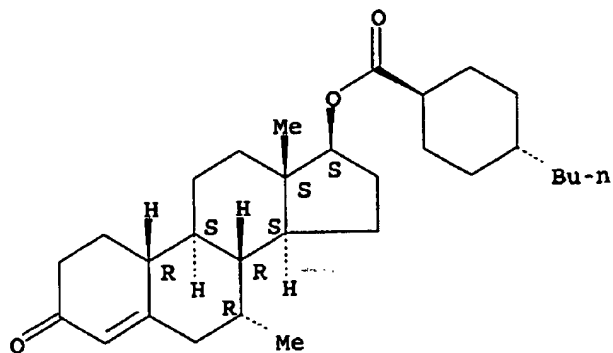
FS STEREOSEARCH

MF C30 H46 O3

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry. Rotation (+).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1962 TO DATE)

2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

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=>

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

28.48

TOTAL

SESSION

28.69

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 11:37:36 ON 10 FEB 2003  
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FILE COVERS 1907 - 10 Feb 2003 VOL 138 ISS 7  
FILE LAST UPDATED: 7 Feb 2003 (20030207/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 11

L5 58592 L1

=> s testosterone

L6 51799 TESTOSTERONE

=> d 16 1-2

L6 ANSWER 1 OF 51799 CAPLUS COPYRIGHT 2003 ACS  
AN 2003:96761 CAPLUS  
TI Effect of adrenalectomy on rat epididymidis  
AU Nair, Neena; Bedwal, R. S.; Mathur, R. S.  
CS Cell Biology Laboratory, Department of Zoology, University of Rajasthan,  
Jaipur, 302 004, India  
SO Asian Journal of Andrology (2002), 4(4), 273-279  
CODEN: ASJAP8; ISSN: 1008-682X  
PB Science Press  
DT Journal  
LA English

L6 ANSWER 2 OF 51799 CAPLUS COPYRIGHT 2003 ACS  
AN 2003:96175 CAPLUS  
TI Early exposure to genistein exerts long-lasting effects on the endocrine  
and immune systems in rats  
AU Klein, Sabra L.; Wisniewski, Amy B.; Marson, Aimee L.; Glass, Gregory E.;  
Gearhart, John P.  
CS The W. Harry Feinstone Department of Molecular Microbiology and  
Immunology, The Johns Hopkins Bloomberg School of Public Health,

2/8/2003

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Baltimore, MD, USA  
SO Molecular Medicine (Baltimore, MD, United States) (2002), 8(11), 742-749  
CODEN: MOMEF3; ISSN: 1076-1551  
PB Johns Hopkins University Press  
DT Journal  
LA English

2/8/2003